'Attachment B Approved For Release 2003/05/15 : CIA-RDP78204747A002400050007-4
DEVELOPMENT OBJECTIVE FILM PROCESSOR STAT Declass Review by NIMA/DOD Introduction This development objective outlines requirements for the design and exponded. STAT fabrication em of an e film processor. 2. Concept The objective of this program is to build a new-concept film processor STAT principle developed and demonstrated utilizing the STAT General Description 3. The specification describes the requirement for eentineers compact The Machine designs shows emphasis compactness so that roll-film processing machine. the processor will physically in overall length, overall that shall not exceed 10 feet/and that be design in a serpentine poth. should not travel through chambers the film the explore the processing or drying sections The film base and emulsion shall not contact solid parts of the processing section. of the machine. Requirements The processor 18 hall handle film widths varying from 70 mm to  $9\frac{1}{2}$ " and up to 🖚 in Length. The film pass shall be straight and horizontal through all solution and drying chambers. C. The film shall be transported at all points by air electric bearings and shall make no physical contacts with collers or other solid parts. processor in drying range shall be not less than 10' per minute. Shall be capable of processing film to the highest possible accordingly, at y and shall damage the film base or emulsion in any way er manner

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## Approved For Release 2003/05/15 : CIA-RDP 18 B04747A002400050007-4

- g. It shall process and fix and wash film to high quality.

  g. It shall be as a last possible possistent for construction and consistent with technical requirements.

  The process and fix and wash film to high quality.

  When fully assembled in
- and operational it whall not exceed 10 Koverall elm= length.
- h. It shall use conventional chemistry.
- i. The machine shall be the operate under daylight (room ambient) conditions). A light-type magazine shall be provided for machine loading in room light.
  - The trh threading operation whall not require more than 10' of film.

    In the same way

    Fibrarie the machine shall not require more than 10' of travel for optimum film transport processing to the end of the film.
  - k. The design of the machine shall facilitate easy operating and rapid to clean without t danger of damage to machine parts.
  - 1. The machine design wintright minimized carry over of solutions from one processing chamber to the other.

    m. The machine shall have average processing of 10 per minute when and be used to process dtandard aerial films with standard chemicals of the standard chemicals of the
- tailored

  and the used to process available action tailored

  and tailored

  tailored

  tailored

  the chamical concentrations temperatures have been tempered to the

  machine design.
  - n. The machine shall process film to our standards. Density variation within an area shall not exceed state 0.05 \$\frac{1}{2}\$" sq. on film development to
  - a mean density of 1.0. Maximum density variation of 0.02 will be
  - a design goal.

    of with chemicals section

    o. Temperature control/within the processing shall may be maintained with  $\pm \frac{1}{2}$  OF. The temperature control range shall be continuously variable from  $68^{\circ}$  to  $160^{\circ}$  F.

## Approved For Release 2003/05/15 : CIA-RDP79504747A002400050007-4

p. The machine shall be provided with a replended replended ment system of sufficient capabity to process at least 1000'" of film  $9\frac{1}{2}$ " wide.